

DaimlerChrysler AG

Patent Claims

1. Vehicle seat with
 - a seat back (1) manifesting a seat back support (3), as well as
 - a head support (2) attached to the seat back support (3) by a connection element (6),
thereby characterized by the head support (2) being connected to the seat back support (3)
and being so positioned in relation to it, that in the event of an accident support of the
head of a vehicle passenger occurs in a forward deployed position in relation to the upper
body, so that a relative movement between the head and the upper body is prevented
during the accident.
2. Motor vehicle seat according to Claim 1, thereby characterized by the head support (2)
manifesting an impact plate (9) with a basically flat area on its side facing the vehicle
passenger.
3. Motor vehicle seat according to Claim 2, thereby characterized by the impact plate (9)
manifesting a strength, which prevents the penetration of the head upon impact.
4. Motor vehicle seat according to Claim 2, thereby characterized by the impact plate (9)
being positioned so as to swivel around a horizontal axis (8).
5. Motor vehicle seat according to Claim 4, thereby characterized by the swivel movement
of the impact plate (9) being so limited, that independent of the position of the impact
plate (9) a two-dimensional contact of the head on the head support (2) is guaranteed in
the event of an accident.

6. Motor vehicle seat according to Claim 4, thereby characterized the swivel axis (8) of the impact plate (9) being positioned in the vicinity of the possible contact location of the head on the head support (2).
7. Motor vehicle seat according to Claim 1, thereby characterized by the connection element (6) being curved.
8. Motor vehicle seat according to Claim 7, thereby characterized by the radius of the connection element (6) as well as its alignment relative to the seat back support (3) being so selected, that independent of the position of the seat back (1) as well as the head support (2), the head support (2) causes a support of the head in a forward deployed position in relation to the upper body.
9. Motor vehicle seat according to Claim 1, thereby characterized by the seat back support manifesting a transverse traverse (3) consisting basically of a U-shaped profile.
10. Motor vehicle seat according to Claim 10, thereby characterized by the U-shaped profile (3) manifesting a base (4) and two side flanks (5', 5''), whereby the base (4) is longer than the side flanks (5', 5'').
11. Motor vehicle seat according to Claim 9, thereby characterized by the transverse traverse (3) manifesting at least one receptacle (7', 7'') for the connection element (6).
12. Motor vehicle seat according to Claim 11, thereby characterized by the receptacle (7', 7'') being made in the side flanks (5', 5'').
13. Motor vehicle seat according to Claim 9, thereby characterized by the areas (12', 12'') of the transverse traverse (3) facing the sides of the seat back (1) being inclined to the front.

14. Motor vehicle seat according to Claim 1, thereby characterized by the seat back (1) manifesting a padding (11) on the side facing the passenger.
15. Motor vehicle seat according to Claim 14, thereby characterized by the padding (11) manifesting a strain hardening which offers the passenger sufficient retention and in the event of an accident facilitates an immersion of the upper body of the passenger into the seat back (1).